



04/12/04

CERTIFICATE OF SERVICE BY MAIL

April 9, 2004

Re: Housekeeping Amendment in the merged cases:

Reissue Application No.:) Group Art Unit: 2177

09/512,592)

United States Patent No.:) Examiner: J. Homere

5,806,063)

Issued: September 8, 1998)

Applicant:)

Dickens-Soeder2000,LLC)

Reexamination Proceeding:)

90/005,592)

Filed: December 21, 1999)

Reexamination Proceeding:)

90/005,628)

Filed: February 2, 2000)

Reexamination Proceeding:)

90/005,727)

Filed: May 16, 2000)

Reexamination Proceeding)

90/0006,541)

Filed February 7, 2003)

I hereby certify that I have served the following on the below listed counsel of record by placing same in a first class mail envelope addressed to the below listed addresses with appropriate postage affixed and deposited with the United States Post Office:

Housekeeping amendment Cover Letter

Housekeeping Amendment of 34 pages

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ER 567449792 45

April 9, 2004

BOX: NON-FEE AMENDMENT
Assistant Commissioner for Patents
Washington, DC 20231

CERTIFICATE OF MAILING UNDER 37 CFR § 1.10

Re: **Housekeeping Amendment** in the merged cases:

Reissue Application No.:)	Group Art Unit: 2177
09/512,592)	
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<u>Dickens-Soeder2000,LLC</u>)	
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90/005,727)	
<u>Filed: May 16, 2000</u>)	
Reexamination Proceeding)	
90/006,541)	
<u>Filed: February 2, 2003</u>)	

Enclosed with this Certificate of Mailing is:

Housekeeping Amendment Cover Letter
Housekeeping Amendment of 34 pages
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Bruce Dickens
Express Mail No.

Via: Express Mail

April 9, 2004
Box: Non-Fee Amendment
Assistant Commissioner for Patents
Washington, DC 20231

Dear Commissioner:

Enclosed is a **Housekeeping Amendment** in the merged cases:

Reissue Application No.:) **Group Art Unit:** 2177

09/512,592)

United States Patent No.:)

5,806,063)

Issued: September 8, 1998)

Applicant:)

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Reexamination Proceeding:)

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90/005,628)

Filed: February 2, 2000)

Reexamination Proceeding:)

90/005,727)

Filed: May 16, 2000)

Reexamination Proceeding)

90/006,541)

Filed February 2, 2003)

Examiner: J. Homere

This Amendment consists of:

Housekeeping Amendment of 34 pages

Certificate of Mailing

Certificate of Service By Mail

Return Receipt Postcard

Respectfully submitted,

Bruce Dickens

Bruce Dickens

3892 Cedron Street

Irvine, CA 92606

Enclosures

**IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE**

Reissue Application No.:)
5 **09/512,592**)
United States Patent No.:) Group Art Unit: 2177
5,806,063)
Issued: September 8, 1998) Examiner: J. Homere
Applicant:)
10 **Dickens-Soeder2000,LLC**)
Reexamination Proceeding:)
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90/005,628)
Filed: February 2, 2000)

Reexamination Proceeding:)
20 90/005,727)
Filed: May 16, 2000)

Reexamination Proceeding)
25 90/006,541)
Filed on February 7, 2003)

HOUSE KEEPING AMENDMENT

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

30

Dear Sir:

Pursuant to the DECISION, SUA SPONTE, TO MERGE

REEXAMINATION AND REISSUE PROCEEDINGS, dated March 12, 2004

("the Decision"), the Applicant in the above referenced Reissue Application and

35 Patent Owner in the above referenced Reexamination Proceedings, which were
merged by the Decision, hereby submits the House Keeping Amendment called for
in the Decision and 37 C.F.R. §1.565(d). This Amendment will serve to place all
claims currently in the above referenced Reissue Application in the merged
Reexamination Proceeding files. Applicant therefore respectfully requests that the

Examiner add the following new claims, the same new claims as were added in the Reissue application, to the above referenced Reexamination Proceeding files and enter the amendment to claim 11 and to the Abstract and the Specification. As required by the decision, this identical Amendment is submitted separately in each

5 of the above referenced files, pursuant to the Decision, though these claims are already a part of the above referenced Reissus Application and '5,592, '5,628 and '5,727 Reexamination Proceedings.

Please amend the application as follows:

IN THE SPECIFICATION:

Please amend the Abstract as follows:

Abstract

Dates stored in symbolic form in a database are reformatted to permit easy
5 manipulation and sorting of date-related information. Each date in M₁M₂, D₁D₂,
and Y₁Y₂ format is converted to C₁C₂, Y₁Y₂, M₁M₂, and D₁D₂ format. To
accomplish the conversion, a 10-decade window starting on Y_AY_B is defined that
encompasses all dates in the database. The value of C₁C₂ is determined by the
relative values of Y₁Y₂ and Y_AY_B. The reformatted date information is particularly
10 useful when the reformatting is in C₁C₂Y₁Y₂M₁M₂D₁D₂ format, because sorting by
date is accomplished using a pure numerical-value sort.

Please amend the Specification by adding the following to the end of the
Specification:

Exhibit A

15 ! - -Century Conversion - -
! Bruce Dickens Apr 04, 1996
!
!
10 open structure toos:name 'otms_src_dir:tools'
20 open #2 : name 'last_inv.dat', access output
print " Tools 'Last Inventory Data Format' Check for 1996 Inventory"
print "Tool No "; " Model No "; " LAST_INV "; "LAST INV
"
print "===== "; " ===== "; " ===== "; " =====
25 print "Extract Data:"
print #2: "ToolNo "; " Model No "; " LAST_INV ";
"LAST_INV"
print #2: "===== "; " ===== "; " ===== ";
"===== "
30 print #2: "Extract Data"

```

20    extract structure tools
      yy$ = 1pad$ (element$ (tools (last_inv),3,"/"), 2, "0")
      mm$ = 1pad$ (element$ (tools (last_inv),1,"/"), 2, "0")
      dd$ = 1pad$ (element$ (tools (last_inv),2,"/"), 2, "0")
      5      cc$= yy$ + "/" + mm$ + dd$
      cc$= change$ (cc$, '/', '')
      if c1$[1:2] , '50' then
          c$ = '20' + c1$
      else
          10     c$= '19' + c1$
      end if
      !
      !       include c$ , '19960101'
      !           sort by tools(model)
      !           sort by rpad$(c$,8, '0')
      15     !
      !       if c$[1:8] , '19960101' then
          print tools(toolno) ; tab (23); tools(model); &
          tab(35); tools(last_inv); tab(44); c$
          print #2: tools(toolno) ; tab (23); tools(model); &
          tab(35); tools(last_inv); tab(44); c$
      20     !
          if valid ( c1$, "digits" ) = 0 then
              print; tab(53); " Date format is not digits"
              print #2: ;tab(53); " Date format is not digits"
          end if
      25     !
          if valid ( c1$, "minlength 6" ) = 0 then
              print; tab(50); " Date format is short"
              print #2: ;tab(50); " Date format is short"
          end if
      30     !
          if tools(last_inv) = "" then
              print; tab(53); " Date format is blank"
              print #2: ;tab(53); " Date format is blank"

```

```

!
      end if
30   end extract
      print
      print "Sorted Data:"
5    print
40   for each tools
      c1$ + change$(tools(last_inv), '/', '')
      print tools(toolno); tab(23); tools(model); &
      tab(35); tools(last_inv); tab(44); c$.
10   if valid (c1$, "digits") = 0 then
      print; tab(53); " Date format is not digits"
      print #2: ;tab(53); " Date format is not digits"
      end if
15   !
      if valid (c1$, "minlength 6") = 0 then
      print; tab(53); " Date format is short"
      !
      print #2: ;tab(53); " Date format is short"
      !
      end if

```

Please amend the claims as follows:

- 20 1. (Original) A method of processing symbolic representations of dates stored in a database, comprising the steps of
- providing a database with symbolic representations of dates stored therein according to a format wherein M₁ M₂ is the numerical month designator, D₁ D₂ is the numerical day designator, and Y₁ Y₂ is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time;
- selecting a 10-decade window with a Y_A Y_B value for the first decade of the window, Y_A Y_B being no later than the earliest Y₁ Y₂ year designator in the
- 25 30 database;

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and

reformatting the symbolic representation of the date with the values $C_1 C_2$, Y_1

5 Y_2 , $M_1 M_2$, and $D_1 D_2$ to facilitate further processing of the dates.

2. (Original) The method of claim 1, wherein the 10-decade window includes the decade beginning in the year 2000.

3. (Original) The method of claim 2, wherein the step of determining includes the
10 step of

 determining the first value as 20 and the second value as 19.

4. (Original) The method of claim 1, including an additional step, after the step of reformatting, of

 sorting the symbolic representations of dates.

15 5. (Original) The method of claim 1, wherein the step of reformatting includes the step of

 reformatting each symbolic representation of a date into the format $C_1 C_2 Y_1 Y_2$
 $M_1 M_2 D_1 D_2$.

20 6. (Original) The method of claim 5, including an additional step, after the step of reformatting, of

 sorting the symbolic representations of dates using a numerical-order sort.

7. (Original) The method of claim 1, wherein the step of providing a database includes the step of

converting pre-existing date information having a different format into the format wherein M₁ M₂ is the numerical month designator, D₁ D₂ is the numerical day designator and Y₁ Y₂ is the numerical year designator.

8. (Original) The method of claim 1, wherein the step of selecting includes the step
5 of

selecting Y_A Y_B such that Y_B is 0 (zero).

9. (Original) The method of claim 1, including an additional step, after the step of reformatting, of

10 storing the symbolic representation of dates and their associated information back into the database.

15 10. (Previously Amended) The method of claim 9, including the additional step, after the step of reformatting, of
manipulating information in the database utilizing the reformatted date information.

11. (Original) A method of processing dates in a database, comprising the steps of
providing a database with dates stored therein according to a format wherein
16 M₁ M₂ is the numerical month designator, D₁ D₂ is the numerical day
designator, and Y₁ Y₂ is the numerical year designator, all of dates falling
within a 10-decade period of time which includes the decade beginning in the
20 year 2000;

selecting a 10-decade window with a Y_A Y_B value for the first decade of the
window, Y_A Y_B being no later than the earliest Y₁ Y₂ year designator in the
database;

determining a century designator C₁ C₂ for each date in the database, C₁ C₂ having a first value if Y₁ Y₂ is less than Y_A Y_B and having a second value if Y₁ Y₂ is equal to or greater than Y_A Y_B ;

reformatting each date in the form C₁ C₂ Y₁ Y₂ M₁ M₂ D₁ D₂ to facilitate further processing of the dates; and

sorting the dates in the form C₁ C₂ Y₁ Y₂ M₁ M₂ D₁ D₂.

12. (Original) The method of claim 11, wherein the step of providing a database includes the step of

converting pre-existing date information having a different format into the format wherein M₁ M₂ is the numerical month designator, D₁ D₂ is the numerical day designator and Y₁ Y₂ is the numerical year designator.

13. (Original) The method of claim 11, wherein the step of selecting includes the step of

selecting Y_A Y_B such that Y_B is 0 (zero).

15 14. (Original) The method of claim 11, including an additional step, after the step of sorting, of

storing the sorted dates and their associated information back into the database.

15. (Original) The method of claim 14, including the additional step, after the step of sorting, of

20 manipulating information in the database having the reformatted date therein.

16. (Previously added) A method of processing symbolic representations of dates stored in a database, comprising the steps of:

providing a database with symbolic representations of dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time;

5 selecting a window with a $Y_A Y_B$ value for a pivot date of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and

10 having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and

reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database

15 having the values $C_1 C_2$, $Y_1 Y_2$, $M_1 M_2$, and $D_1 D_2$, in order to facilitate collectively further processing the reformatted symbolic representations of

each of the symbolic representations of each of the dates.

17. (Previously added) The method of claim 16, wherein the window includes at least a portion of the decade beginning in the year 2000.

18. (Previously added) The method of claim 17, wherein the step of determining

20 includes the step of:

 determining the first value as 20 and the second value as 19.

19. (Previously added) The method of claim 16, including an additional step, after the step of reformatting, of:

sorting the symbolic representations of dates.

20. (Previously added) The method of claim 16, wherein the step of reformatting includes the step of:

reformatting each symbolic representation of a date into the format C₁ C₂ Y₁ Y₂
5 M₁ M₂ D₁ D₂ separately from the symbolic representations in the database.

21. (Previously added) The method of claim 20, including an additional step, after the step of reformatting, of:

sorting the symbolic representations of dates using a numerical-order sort.

22. (Previously added) The method of claim 16, wherein the step of providing a
10 database includes the step of:

converting pre-existing date information having a different format into the format wherein M₁ M₂ is the numerical month designator, D₁ D₂ is the numerical day designator and Y₁ Y₂ is the numerical year designator.

23. (Previously added) The method of claim 16, wherein the step of selecting
15 includes the step of:

selecting Y_A Y_B such that Y_B is 0 (zero).

24. (Previously added) The method of claim 16, including an additional step, after the step of reformatting, of:

storing the symbolic representation of dates and their associated information
20 back into the database.

25. (Previously added) The method of claim 24, including the additional step, after the step of reformatting, of:

manipulating information in the database having the reformatted date information therein.

26. (Previously added) A method of processing dates in a database, comprising the steps of:

- 5 providing a database with dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time;
- 10 selecting a window with a $Y_A Y_B$ value for a pivot date of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;
- 15 determining a century designator $C_1 C_2$ for each date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$;
- 20 reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2$, $Y_1 Y_2$, $M_1 M_2$, and $D_1 D_2$, in order to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates; and

20 sorting the dates in the form $C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2$.

27. (Previously added) The method of claim 26, wherein the step of providing a database includes the step of:

converting pre-existing date information having a different format into the format wherein M₁ M₂ is the numerical month designator, D₁ D₂ is the numerical day designator and Y₁ Y₂ is the numerical year designator.

28. (Previously added) The method of claim 26, wherein the step of selecting 5 includes the step of:
 - selecting Y_A Y_B such that Y_B is 0 (zero).
29. (Previously added) The method of claim 26, including an additional step, after the step of sorting, of:
 - storing the sorted dates and their associated information back into the database.
- 10 30. (Previously added) The method of claim 29, including the additional step, after the step of sorting, of:
 - manipulating information in the database having the reformatted dates therein.
31. (Previously added) A method of processing symbolic representations of dates stored in a database, comprising the steps of:
 - 15 providing a database with symbolic representations of dates stored therein according to a format wherein Y₁ Y₂ is the numerical year designator;
 - selecting a window with a Y_A Y_B value for the first decade of the window, Y_A Y_B being no later than the earliest Y₁ Y₂ year designator in the database;
 - determining a century designator C₁ C₂ for each symbolic representation of a 20 date in the database, C₁ C₂ having a first value if Y₁ Y₂ is less than Y_A Y_B and having a second value if Y₁ Y₂ is equal to or greater than Y_A Y_B ; and

reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2, Y_1 Y_2$, in order to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates.

5 32. (Previously added) A method of processing dates in a database, comprising the steps of:

- providing a database with symbolic representations of dates stored therein according to a format wherein $Y_1 Y_2$ is the numerical year designator;
- 10 selecting a window with a $Y_A Y_B$ value for a pivot year of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;
- determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$;
- 15 reformatting the symbolic representation of each of the dates in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2, Y_1 Y_2$, in order to facilitate collectively further processing the reformatted symbolic representations of each of the dates; and
- 20 sorting the dates in the form $C_1 C_2 Y_1 Y_2$.

33. (Previously added) A method of processing symbolic representations of dates stored in a database, comprising the steps of:

- providing a database with symbolic representations of dates stored therein according to a format wherein $Y_1 Y_2$ is the numerical year designator;
- 5 selecting a window with a $Y_A Y_B$ value for the first decade of the window, Y_A Y_B being no later than the earliest $Y_1 Y_2$ year designator in the database;
- determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and
- 10 reformatting the symbolic representation of each symbolic representation of a date in the database, without changing any of the symbolic representations of a date in the database during the reformatting step, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2$, $Y_1 Y_2$, in order to facilitate collectively further processing the reformatted symbolic representations of each of the dates.
- 15

34. (Previously added) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:

- converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic

representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without the addition of any new data field to the database for purposes of such windowing and converting; and,

5 running a program collectively on each of the converted symbolic representations of each of the respective dates to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the date data symbolic representations contained in the at least one date

10 field of the database.

35. (Previously added) A method of claim 34 further comprising the step of:

opening the database prior to the step of converting.

36. (Previously added) The method of claim 34 further comprising the step of:

15 collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations.

37. (Previously added) The method of claim 35 further comprising the step of:

20 collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations.

38. (Previously added) The method of claim 34 further comprising the step of:

collectively manipulating the converted symbolic representations prior to
the step of running the program on the converted symbolic representations.

39. (Previously added) The method of claim 35 further comprising the step of:

5 collectively manipulating the converted symbolic representations prior to
the step of running the program on the converted symbolic representations.

40. (Previously added) The method of claim 34 further comprising the step of:

10 collectively sorting the converted symbolic representations according to a
different data field contained in the database from the at least one date field, prior
to the step of running the program on the converted symbolic representations.

41. (Previously added) The method of claim 35 further comprising the step of:

15 collectively sorting the converted symbolic representations according to a
different data field contained in the database from the at least one date field, prior
to the step of running the program on the converted symbolic representations.

42. (Previously added) The method of claim 34 further comprising the step of:

20 collectively manipulating the converted symbolic representations according
to a different data field contained in the database from the at least one date field,
prior to the step of running the program on the converted symbolic representations.

43. (Previously added) The method of claim 35 further comprising the step of:

collectively manipulating the converted symbolic representations according to a different data entry field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations.

5

44. (Previously added) The method of claim 34 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.

10

45. (Previously added) The method of claim 35 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.

15

46. (Previously added) The method of claim 34 wherein the step of converting includes converting at least a substantial portion of each of the plurality of symbolic representations of dates in the at least one date field and repeating this step until each of the date data entries in the at least one date field is converted into
20 the format that does not have the ambiguity.

47. (Previously added) The method of claim 35 wherein the step of converting includes converting at least a substantial portion of each of the plurality of symbolic representations of dates in the at least one date field and repeating this

step until each of the date data entries in the at least one date field is converted into the format that does not have the ambiguity.

48. (Previously added) The method of claim 46 further comprising the steps of:

5 collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations.

49. (Previously added) The method of claim 47 further comprising the steps of:

10 collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations.

50. (Previously added) The method of claim 46 further comprising the step of:

 collectively manipulating the converted symbolic representations.

15 51. (Previously added) The method of claim 49 further comprising the step of:

 collectively manipulating the converted symbolic representations.

52. (Previously added) The method of claim 46 further comprising the step of:

20 collectively sorting the converted symbolic representations according to a different data field in the database than the at least one date field, prior to the step of running the program.

53. (Previously added) The method of claim 47 further comprising the step of:

collectively sorting the converted symbolic representations according to a different data field in the database than the at least one date field, prior to the step of running the program.

5 54. (Previously added) The method of claim 52 further comprising the step of:
collectively manipulating the converted symbolic.

55. (Previously added) The method of claim 53 further comprising the step of:
collectively manipulating the converted symbolic representations.

10

56. (Previously added) The method of claim 52 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.

15

57. (Previously added) The method of claim 53 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.

20

58. (Previously added) The method of claim 54 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.

59. (Previously added) The method of claim 55 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the
5 date.

60. (Previously added) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that
10 creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:
converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic
15 representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and
20 converting;

running a program on each of the converted symbolic representations of each of the respective dates to sort or otherwise manipulate data in the database according to the dates represented by the converted symbolic representations,

separately from the date data symbolic representations of dates contained in the at least one date field of the database.

61. (Previously added) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates
- 5 stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:

 converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic representations of dates in the 10 at least date field of the database for purposes of such windowing and converting;

 running a program collectively on each of the converted symbolic representations of each of the respective dates to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately 15 from the symbolic representations of dates contained in the at least one date field of the database.

62. (Previously added) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates

stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:

- converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without the addition of any new data field to the database for purposes of such windowing and converting;
- 10 storing the converted symbolic representations separate from the at least one date field of the database; and
- running a program on the stored converted symbolic representations to sort or otherwise manipulate data in the database according to the dates represented by the converted symbolic representations, separately from the symbolic representations of dates contained in the at least one date field of the database.
- 15

63. (Previously added) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:
- 20

- converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without the addition of any new data field to the database for purposes of such windowing and converting;
- storing the converted symbolic representations separate from the at least one date field of the database; and,
- running a program collectively on the stored converted symbolic representations to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the symbolic representations of dates contained in the at least one date field of the database.
64. (Previously added) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:
- converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic

representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting;

storing the converted symbolic representations separate from the at least one date field in the database; and

running a program on the stored converted symbolic representations to sort or
otherwise manipulate data in the database according to the dates represented by
the converted symbolic representations, separately from the symbolic
representations of dates contained in the at least one date field of the database.

65. (Previously added) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:

converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the

- database, without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting;
- storing the converted symbolic representations separate from the at least one date field in the database; and
- running a program collectively on the stored converted symbolic representations to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the symbolic representations of dates contained in the at least one date field of the database.
- 10
66. (Previously added) A method of processing dates in a database, comprising the steps of:
- providing a database with dates stored in at least one date field therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator;
- 15 selecting a window with a $Y_A Y_B$ value for a pivot date of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;
- determining a century designator $C_1 C_2$ for each date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if Y_1
- 20 Y_2 is equal to or greater than $Y_A Y_B$;
- reformatting the symbolic representation of each symbolic representation of a date in a portion of the at least one date field in the database, without the addition of any new data field to the database, with the reformatted symbolic

representation of each date in the database having the values C₁ C₂, Y₁ Y₂, M₁

M₂, and D₁ D₂; and

repeating the step of reformatting until each symbolic representation of a date
in the at least one date field has been reformatted in order to facilitate

- 5 collectively further processing the reformatted symbolic representations of
each of the symbolic representations of each of the dates.

67. (Previously added) A method of processing dates in a database, comprising the
steps of:

providing a database with dates stored in at least one date field therein

- 10 according to a format wherein Y₁ Y₂ is the numerical year designator;

selecting a window with a Y_A Y_B value for a pivot date of the window, Y_A Y_B
being no later than the earliest Y₁ Y₂ year designator in the database;

determining a century designator C₁ C₂ for each date in the database, C₁ C₂
having a first value if Y₁ Y₂ is less than Y_A Y_B and having a second value if Y₁

- 15 Y₂ is equal to or greater than Y_A Y_B;

reformatting the symbolic representation of each symbolic representation of a
date in a portion of the at least one date field in the database, without the
addition of any new data field to the database, with the reformatted symbolic
representation of each date in the database having the values C₁ C₂, Y₁ Y₂; and

- 20 repeating the step of reformatting until each symbolic representation of a date
in the at least one date field has been reformatted in order to facilitate

collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates.

68. (Previously added) A method of processing symbolic representations of dates stored in a database, comprising the steps of:

- 5 providing a database with symbolic representations of dates stored in at least one date field therein according to a format wherein $Y_1 Y_2$ is the numerical year designator;
selecting a window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the at least one date field of the database;
- 10 determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and reformatting the symbolic representation of each symbolic representation of a date in at least one date field in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2, Y_1 Y_2$, in order to facilitate further processing of the reformatted symbolic representations of each of the symbolic representations of each of the dates, by running a program on the reformatted symbolic representations of each of the dates.
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- 20

69. (New) A method of processing dates in a database, comprising the steps of:

providing a database with dates stored in at least one date field therein according to a format wherein $Y_1 Y_2$ is the numerical year designator;

- selecting a window with a $Y_A Y_B$ value for a pivot year of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;
- determining a century designator $C_1 C_2$ for each date in the at least one date field of the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$;
- reformatting the symbolic representation of each symbolic representation of a date in the at least one date field in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2, Y_1 Y_2$;
- 10 sorting the reformatted symbolic representations of the dates in the form $C_1 C_2 Y_1 Y_2$; and
- running a program on the reformatted symbolic representations of each of the dates.
70. (Previously added) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of
- 20 converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year, with the pivot year being less than or

equal to the earliest date represented by the symbolic representation of dates stored in the at least one date field, without the addition of any new data field to the database, and without modifying any of the symbolic representations of dates in the at least one date field, for purposes of such windowing and

5 converting; and,

running a program on the converted symbolic representations of each of the dates to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the date data symbolic representations contained in the at least one date field of the database.

- 10 71. (Previously added) A method for representing and utilizing dates stored in at least one date field of the database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of
- 15 converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year, with the pivot year being less than or
- 20 equal to the earliest date represented by a symbolic representation of dates stored in the at least one date field, and without the addition of any new data field to the database for purposes of such windowing and converting;

- storing each of the converted symbolic representations of each of the dates separate from the database; and,
- running a program on the stored converted symbolic representations of each of the converted symbolic representations of the dates to sort or otherwise
- 5 manipulate the dates represented by the converted symbolic representations, separately from the date data symbolic representations contained in the at least one date field of the database.
72. (Previously added) A method of processing symbolic representations of dates stored in a database, comprising the steps of
- 10 selecting a database with symbolic representations of dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator;
- selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the
- 15 database;
- determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and,
- reformatting the symbolic representation of each symbolic representation of a
- 20 date in the database with the values $C_1 C_2$, $Y_1 Y_2$, $M_1 M_2$, and $D_1 D_2$ prior to collectively further processing information contained within the database associated with the respective dates.

73. (Previously added) A method of processing symbolic representations of dates stored in a database, comprising the steps of

- providing a database with symbolic representations of dates stored therein according to a format wherein $Y_1 Y_2$ is the numerical year designator, all of the
 - 5 symbolic representations of dates falling within a 10-decade period of time;
 - selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;
 - determining a century designator $C_1 C_2$ for each symbolic representation of a
 - 10 date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and,
 - reformatting the symbolic representation of the date with the values $C_1 C_2, Y_1 Y_2$, to facilitate further processing of the dates.

74. (Previously added) A method of processing dates in a database, comprising the

- 15 steps of

- providing a database with symbolic representations of dates stored therein according to a format wherein $Y_1 Y_2$ is the numerical year designator, all of the
 - symbolic representations of dates falling within a 10-decade period of time;
 - selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the
 - 20 window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each date in the database, $C_1 C_2$
having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if Y_1
 Y_2 is equal to or greater than $Y_A Y_B$;
reformatting each date in the form $C_1 C_2 Y_1 Y_2$ to facilitate further processing
5 of the dates; and,
sorting the dates in the form $C_1 C_2 Y_1 Y_2$.

75. (Previously added) A method of processing symbolic representations of dates
stored in a database, comprising the steps of
providing a database with symbolic representations of dates stored therein
10 according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$
is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator;
selecting a window with a $Y_A Y_B$ value for a pivot date of the window, $Y_A Y_B$
being no later than the earliest $Y_1 Y_2$ year designator in the database;
determining a century designator $C_1 C_2$ for each symbolic representation of a
15 date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and
having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and
reformatting the symbolic representation of each symbolic representation of a
date in the database, without the addition of any new data field to the database,
with the reformatted symbolic representation of each date in the database
20 having the values $C_1 C_2$, $Y_1 Y_2$, $M_1 M_2$, and $D_1 D_2$, in order to facilitate further
processing of the reformatted symbolic representations of each of the symbolic
representations of each of the dates.

76. (Previously added) A method of processing dates in a database, comprising the steps of

providing a database with dates stored therein according to a format wherein

M₁ M₂ is the numerical month designator, D₁ D₂ is the numerical day

5 designator, and Y₁ Y₂ is the numerical year designator;

selecting a window with a Y_A Y_B value for a pivot date of the window, Y_A Y_B

being no later than the earliest Y₁ Y₂ year designator in the database;

determining a century designator C₁ C₂ for each date in the database, C₁ C₂

having a first value if Y₁ Y₂ is less than Y_A Y_B and having a second value if Y₁

10 Y₂ is equal to or greater than Y_A Y_B ;

reformatting the symbolic representation of each symbolic representation of a

date in the database, without the addition of any new data field to the database,

with the reformatted symbolic representation of each date in the database

having the values C₁ C₂, Y₁ Y₂, M₁ M₂, and D₁ D₂, in order to facilitate further

15 processing of the reformatted symbolic representations of each of the symbolic representations of each of the dates; and

sorting the dates in the form C₁ C₂ Y₁ Y₂ M₁ M₂ D₁ D₂.

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Remarks

The above amendment, pursuant to the requirements of the Decision and 37
C.F.R. § 1.565(d), places the claims added to the Reissue Application and the
5 amendments to the Reissue Application in the files for the above referenced
Reexamination Proceedings.

Respectfully submitted,

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